CITY OF HAYWARD
AGENDA REPORT

AGENDA DATE 11/28/00
AGENDA ITEM
WORK SESSION ITEM

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Seismic Retrofit of the Highland 500 Reservoir-Approval of Plans and Specifications and Call for Bids

RECOMMENDATION:
It is recommended that the City Council adopt the attached resolution approving the plans and specification for the seismic retrofit of the Highland 500 Reservoir and call for bids to be received on January 9, 2001.

BACKGROUND:

The Highland 500 Reservoir, located at Highland Boulevard and Campus Drive, is a critical component in the City's delivery system providing water to the eastern hills of Hayward. This prestressed concrete tank, constructed in 1955, has a storage capacity of 3 million gallons.

Several years ago, as part of a system-wide seismic analysis for the water system, Dames & Moore recommended the City provide certain strengthening measures for the 500 Reservoir. Carollo Engineers performed a more detailed structural study of the 500 Reservoir in 1999 and made a specific recommendation to reinforce the structure with tensioned steel cable.

Wrapping the exterior with steel cable and then covering the cable with shotcrete will seismically reinforce the reservoir. In order for the shotcrete to adhere to the old concrete, the existing paint must be removed. An analysis of the paint indicates that it contains lead that must be disposed of in accordance with environmental and health regulations.

The tank is partially buried and is situated on a small site that has little room between the tank and the property line. Excavation of up to 15 feet in depth will be necessary to expose the buried portion of the tank for wrapping. Controlling the exposed excavations by driving shoring will be required. The City has negotiated with a neighboring property owner to obtain a construction easement for placement of the shoring materials and for temporary storage of the excavated soil, which will eliminate over 200 truck trips to haul away and return the excavated soil.

As part of this work, the 500 Reservoir will also be modified to become a "flow through" tank. A single pipe now provides inflow and outflow. With the current configuration stagnation can occur, adversely affecting water quality. As part of this project, an inlet pipe

will be placed on the side of the tank opposite the outlet pipe, which will cause the water in the tank to be continuously cycled.

It will be necessary to take the tank out of service during retrofit activities. In order to minimize potential problems, construction work requiring the tank to be off-line will be scheduled for completion prior to the end of June 2001.

A public meeting concerning the project was held on November 8, 2000. The main concern expressed was landscaping of the site after completion of construction to screen the tank and soften the visual impact. Extensive landscaping is planned to address this concern. The landscape contract will be separated from the seismic upgrade contract because the wire wrapping work is highly specialized.

The seismic work is categorically exempt from environmental review under the California Environmental Quality Act (CEQA). The Public Resources Code states that CEQA does not apply to modifications of Class I Existing Faculties, e.g., existing facilities of publicly-owned utilities used to provide public utility services,

Staff has established a combined goal of 5 percent for Disadvantaged Business Enterprise (DBE) and Women Owned Business Enterprise (WBE) participation for this project. The combined goal is limited due to lack of available subcontracting opportunities.

PROJECT COST:

The estimated costs of the project are as follows:

Design and administration	$150,000
Construction	1,200,000
Future landscaping	100,000
Construction administration and Inspection	60,000
Total	$1,510,000

FUNDING:

A total of $1,290,000 has been approved in the Water System Capital Improvement Fund of the 2000101 Capital Improvement Program for this project. After bids are received, an additional appropriation will be requested, as necessary.

SCHEDULE:

Advertise for bids	November 29, 2000
Open bids	January 9, 200 1
Award construction contract	January 23, 200 1
Complete construction	June 30, 2001

Prepared by:

FOR Alex Ameri, Deputy Director of Public Works

Recommended by:

Dennis L. Butler, Director of Public Works

Approved by:

Jesús Armas, City Manager

Attachments: Exhibit A: Project Location Map

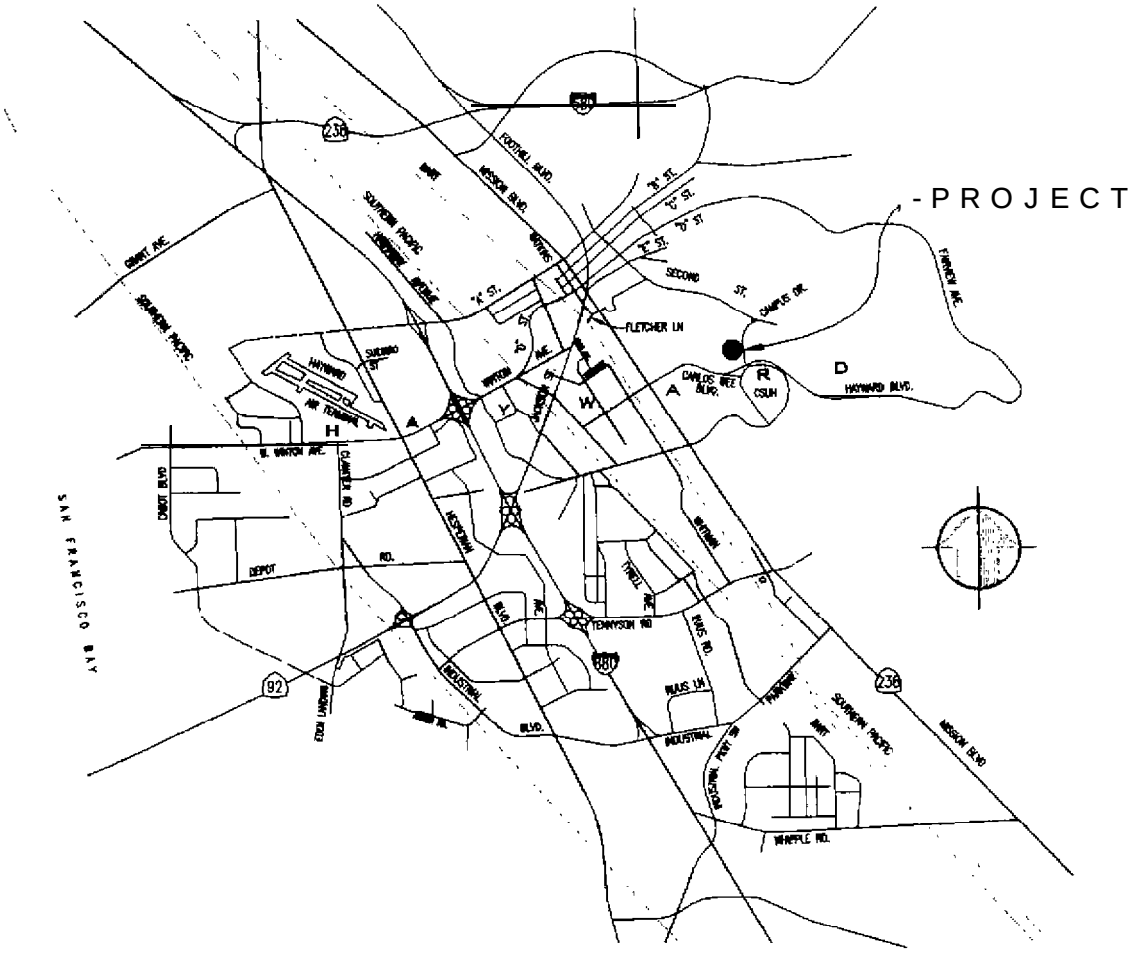

EXHIBIT A
PROJECT LOCATION MAP

DRAFT

HAYWARD CITY COUNCIL

RESOLUTION NO.

Introduced by Council Member _____

RESOLUTION APPROVING PLANS AND SPECIFICATIONS FOR THE SEISMIC RETROFIT OF THE HIGHLAND 500 RESERVOIR AND CALL FOR BIDS

BE IT RESOLVED by the City Council of the City of Hayward as follows:

1. That those certain plans and specifications for the seismic retrofit of the Highland 500 Reservoir, on file in the office of the City Clerk. are hereby adopted as the plans and specifications for the project;

2. That the City Clerk is hereby directed to cause a notice calling for bids for the required work. and material to be made in the form and manner provided by law.

3. That sealed bids therefor will be received by the City Clerk's office at City Hall, 777 "B" Street, 4th Floor, Hayward, California 94541-5007, up to the hour of 2:00 p.m. on Tuesday, January 9, 2001, and immediately thereafter publicly opened and declared by the City Clerk in the Public Works Conference Room, 4D. located on the 4th Floor of City Hall, Hayward, California;

4. That the City Council will consider a report on the bids at a regular meeting following the aforesaid opening and declaration of same; and

IN COUNCIL, HAYWARD, CALIFORNIA _____, 2000

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

_____
City Attorney of the City of Hayward